2. The method of claim 1, where the first set of slices are intra-coded.

3. The method of claim 2, where the second set of slices are intra-coded.

4. (Amended) The method of claim 3, further comprising:**[.]**
encoding a third set of slices for the video portion for each of the plurality of video streams, where the third set of slices are predictive-coded.

5. (Amended) The method of claim 4, further comprising:**[.]**
encoding a fourth set of slices for the video portion for each of the plurality of video streams, where the fourth set of slices comprise skipped-coded guide portion **[graphics]**.

6. (Amended) The method of claim 3, where the encoding the second set of slices is performed once per group of pictures (GOP) for each of the plurality of video streams.

7. (Amended) The method of claim 4, where the encoding the third set of slices is performed multiple times per group of pictures (GOP) for each of the plurality of ~~video streams~~.

~~8.~~ (Amended) The method of claim ~~5~~, where the encoding the fourth set of slices is performed multiple times per group of pictures (GOP) for each of the plurality of video streams.

9. (Amended) The method of claim 1, further comprising:**[.]**
encoding a plurality of audio streams, each audio stream **[having]** associated with a corresponding video stream.

~~10.~~ (Amended) The method of claim ~~8~~, further comprising:**[.]**

forming a first packet stream by multiplexing together first, second, third, and fourth sets of packets, where the first set of packets include the encoded first set of slices, the second set of packets include the encoded second set of slices, the third set of packets include the encoded third set of slices, and the fourth set of packets include the encoded fourth set of slices.

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~~11~~. (Amended) The method of claim ~~10~~, further comprising:**[.]**

encoding a plurality of audio streams, each audio stream **[having]** associated with a corresponding video stream;

forming an audio packet stream by multiplexing together packets for the plurality of audio streams; and

forming a transport stream by multiplexing together the first packet stream and the audio packet stream.

~~12~~. (Amended) A bitstream for representing a program guide having included therein a guide portion and a video portion, the bitstream comprising:

a first set of packets including a first set of slices for the guide portion for each of a plurality of **[graphics]** guide pages; and

a second set of packets including a second set of slices for the video portion for each of a plurality of video streams.

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13. The bitstream of claim 12, where the first set of packets are identifiable by a first set of packet identifiers.

14. The bitstream of claim **[13]** 12, where the second set of packets are identifiable by a second set of packet identifiers.

15. The bitstream of claim **[14]** 12, where the first set of packets comprise a set of intra-coded slices for the guide portion for each of the plurality of **[graphics]** guide pages.

16. The bitstream of claim **[15]** 12, where the second set of packets comprise a set of intra-coded slices for the video portion for each of the plurality of video streams.

17. (Amended) The bitstream of claim 16, where the second set of packets further comprise a **[include a second]** set of predictive-coded slices for the video portion for each of **[a]** the plurality of video streams**[, where the second set of slices are predictive-coded]**.

18. (Amended) The bitstream of claim 17, where the second set of packets further comprise a **[include a third]** set of skipped-coded slices for the guide portion for each of **[a]** the plurality of video streams**[, where the third set of slices are skipped-coded]**.

19. (Amended) The bitstream of claim 12, further comprising:**[.]**

a third set of packets including a plurality of audio streams, each audio stream **[having]** associated with a corresponding video stream.

20. (Amended) The bitstream of claim 12, wherein the plurality of video streams comprise **[including multiple]** full motion video streams which can be retrieved **[directly]** with a demultiplexer and a decoder **[from a single tuner]** at a receiving terminal.

21. (Amended) The bitstream of claim 12, wherein the plurality of video streams comprise **[including multiple]** full motion video streams which can be played interchangeably at a receiving terminal **[from a single tuner]**.

22. (Amended) The bitstream of claim 12, wherein the plurality of video streams comprise **[including multiple]** full motion video streams which can be retrieved **[directly]** with a demultiplexer and a decoder **[without being accessible to]** without assistance ~~from a microprocessor.~~

23. (Amended) A method of **[generating]** forming a user interface to be transmitted in a packet stream to a plurality of terminal units, wherein the user interface includes a guide portion and a video portion, the method comprising:

creating a first set of packets by encoding a set of slices for the guide portion for each of a plurality of guide pages **[graphics]**; and

creating a second set of packets by encoding a set of slices for the video portion for each of a plurality of video streams.

-- 24. (New) The method of claim 20, wherein the full motion video streams can be retrieved with a single tuner at the receiving terminal.

25. (New) The method of claim 21, wherein the full motion video streams can be played interchangeably with a single tuner at the receiving terminal.

26. (New) The method of claim 1, wherein the encoded first set of slices for the guide portion for the plurality of guide pages is sent as an elementary stream.

27. (New) The method of claim 1, wherein the encoded first set of slices for the guide portion for the plurality of guide pages and the encoded second set of slices for the video portion for the plurality of video streams are sent as a single transport stream.

28. (New) The method of claim 1, wherein each of the plurality of guide pages can be recombined with any one of the plurality of video streams to form a program guide page.

29. (New) The method of claim 1, wherein one of the plurality of video streams is selectable for recombination with a particular guide page to form a program guide page.

30. (New) The method of claim 29, wherein the plurality of video streams are interchangeable displayed with the particular guide page via user interaction.

31. (New) The method of claim 10, wherein the forming the first packet stream includes

scanning slices in the first and second sets,

packetizing and assigning packet identifiers (PIDs) to the first and second sets of packets in conjunction with the scanning of the slices in the first and second sets,

scanning slices in the third and fourth sets,

packetizing and assigning PIDs to the third and fourth sets of packets in conjunction with the scanning of the slices in the third and fourth sets, and

interleaving packets from the first, second, third, and fourth sets.

32. (New) The method of claim 31, wherein slices in the first, second, third, ~~and fourth sets are scanned serially.~~

~~33.~~ 15 (New) The method of claim ~~31~~ 13, wherein slices in the first, second, third, and fourth sets are scanned non-serially.

~~34.~~ 16 (New) The method of claim ~~11~~ 7, wherein the packets for the audio packet stream are interleaved with packets for the first packet stream.

~~35.~~ 17 (New) The method of claim ~~34~~ 16, wherein the packets for the audio and first packet streams are interleaved such that packets for the audio packet stream for each time instance are located near packets for the first packet stream for the same time instance.

~~36.~~ (New) A method for encoding information for a video frame having included therein a plurality of portions, the method comprising:

defining a first portion of the video frame with a first set of slices;

defining a second portion of the video frame with a second set of slices;

encoding the first set of slices for the first portion for each of a plurality of first streams, wherein each of the first streams is suitable for display in the first portion; and